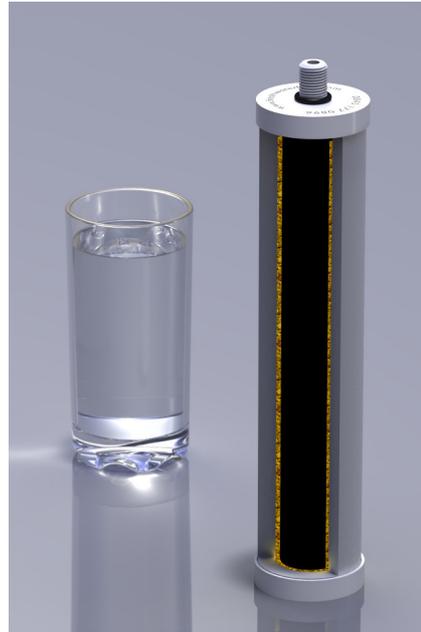


Cartridge Information Sheet

'Pearl' Filter Cartridge

The FreshWater 'Pearl' water filter cartridge is the most advanced in the FreshWater range. Designed and developed exclusively by FreshWater, the Pearl cartridge employs a combination of approved water filtration media to provide extremely effective multi-stage filtration. Its broad spectrum capability gives it the ability to address a wide range of possible waterborne contaminants whilst retaining the minerals and trace elements, such as calcium and magnesium, which are considered beneficial to health and give water its unique refreshing taste.

The Pearl filter comprises three main components; an outer shell of micro-porous ceramic, a layer of 'redox' material and an inner core of impregnated carbon block. Each media is specially formulated to remove specific contaminants from the untreated water as it passes through the cartridge, from the outside to the centre.



Stage 1 - The ceramic outer shell: the unique properties of the porous ceramic section of the cartridge enable it to remove 99.9% of all particles larger than 1 micron (not visible to the human eye), including sediment, harmful bacteria, cysts and parasites.

Stage 2 - The 'redox' layer - KDF55: sandwiched between the outer and inner core this uniquely formulated media is an effective bactericide and reduces chlorine, iron, hydrogen sulphide and heavy metals. It also reduces limescale build-up on exposed surfaces. KDF55 is approved for use with potable water and meets the safety standards of both the USA EPA (environmental protection agency) and FDA (food and drug administration).

Stage 3 - The carbon block inner core: at the heart of the cartridge is a cylinder of activated carbon in the form of a porous block. This technically advanced construction is far superior to the commonly used, loose granular activated carbon. Its controlled pore structure (0.5 micron nominal) makes it particularly suited to use in domestic pressure filters. The carbon rod is effective against heavy metals including lead, and a wide range of chemical and organic pollutants including chlorine, agricultural pesticides and herbicides.

Specifications:

Flow rate (new) - 2.4 litres per minute

Particle retention - 0.7 microns

Capacity - 2800 litres Chlorine, Lead and VOC's

Dry weight - 560g

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